Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Office of the Secretary Of Defense

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 5:

PE 0604165D8Z I Prompt Global Strike Capability Development

Date: February 2018

System Development & Demonstration (SDD)

	• •	•										
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	1,073.276	161.100	201.749	263.414	0.000	263.414	0.000	0.000	0.000	0.000	Continuing	Continuing
164: Hypersonic Glide Experiment and Concepts Demonstration Support	373.741	2.000	1.000	263.414	0.000	263.414	0.000	0.000	0.000	0.000	Continuing	Continuing
166: Alternate Re-Entry System/ Warhead Engineering	562.701	153.810	197.440	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
167: Test Range Development	62.446	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
168: OSD CPGS Studies	74.388	3.290	3.309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Note

FY17 P168 reduced from 3,290 to 3,264 for reduction tax to pay for cancelled accounts in WHS. Conventional Prompt Strike program and funding transfers to the Navy, PE 0604659N, starting in FY20. Additional information is classified.

A. Mission Description and Budget Item Justification

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with participation from the Services, Agencies, national research laboratories, and further involvement of competitive industry. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives highlighted by flight tests. The program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, thermal protection systems, guidance systems, test range modernization, and mission planning and enabling capabilities. To support these development activities, the program procures modeling and simulation capabilities, ground testing, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program timing will be driven by the outcome of flight and ground test events as well as DoD budgets. In FY 2018, as in previous years, funding for the individual Service initiatives will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Office of the Secretary Of Defense

10141, 01 20101100

Date: February 2018

Appropriation/Budget Activity

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 5:

R-1 Program Element (Number/Name)
PE 0604165D8Z I Prompt Global Strike Capability Development

System Development & Demonstration (SDD)

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	181.303	201.749	218.833	0.000	218.833
Current President's Budget	161.100	201.749	263.414	0.000	263.414
Total Adjustments	-20.203	0.000	44.581	0.000	44.581
 Congressional General Reductions 	-20.000	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
FFRDC Reduction	-0.177	-	-	-	-
 Reduction Tax for Cancelled Accounts in 	-0.026	-	-	-	-
WHS					
Economic Adjustment	-	_	-1.450	-	-1.450
CPS Program Increase	-	-	46.031	-	46.031

Change Summary Explanation

CPGS program funding aligned with CPGS program plan. \$26K reduction tax to pay for cancelled accounts in WHS.

Exhibit R-2A, RDT&E Project Ju	stification	PB 2019 C	Office of the	Secretary (Of Defense				Date: February 2018			
Appropriation/Budget Activity 0400 / 5						am Elemen 65D8Z I Pro Developme	mpt Global	Project (Number/Name) 164 I Hypersonic Glide Experiment and Concepts Demonstration Support				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
164: Hypersonic Glide Experiment and Concepts Demonstration Support	373.741	2.000	1.000	263.414	0.000	263.414	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with participation from the Services, Agencies, national research laboratories, and further involvement of competitive industry. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives highlighted by flight tests. The program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, thermal protection systems, guidance systems, test range modernization, and mission planning and enabling capabilities. To support these development activities, the program procures modeling and simulation capabilities, ground testing, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program timing will be driven by the outcome of flight and ground test events as well as DoD budgets. In FY 2018, as in previous years, funding for the individual Service initiatives will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Hypersonic Glide Experiments and Concept Demonstration Development/Support	2.000	1.000	263.414
Description: This sub-project develops technologies and applications that could lead to a system with the following characteristics: effects on targets in a very short-period of time from execution order; non-ballistic flight over the majority of the flight path; positive control from launch to impact; adequate cross-range/ maneuverability to avoid overflight issues; controlled stage drop over Broad Ocean Area. This sub-project also oversees development of non-nuclear warhead technologies to defeat time-sensitive targets for near and longer-term CPGS applications. The technologies developed will have cross-Service and cross-concept applicability and will be developed through close coordination among DoD components. This activity will support both ground and flight tests, and provide all national data to inform a potential acquisition program.			
FY 2018 Plans: - Conduct trade studies to evaluate system alternatives, affordability, end-to-end system concepts that will study a weaponized integrated system complete with system architecture, and industrial manufacturing readiness - Continue aerodynamic and weapon risk reduction and technology maturation efforts through ground and wind tunnel tests to improve modeling and simulation capabilities and technology readiness, assessing readiness to conducted integrated penetrator component technology tests			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of	the Secretary Of Defense		Date: F	ebruary 2018	3		
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604165D8Z I Prompt Global Strike Capability Development	•					
B. Accomplishments/Planned Programs (\$ in Millions) - Continue Systems Engineering support to CPGS program and facilitate judgments of feasibility and risks of all CPGS concepts. CPGS community and COCOMs.			FY 2017	FY 2018	FY 2019		
FY 2019 Plans: N/A							
FY 2018 to FY 2019 Increase/Decrease Statement: All of FY2019 funding will be allotted to P166, Alternate Re-Entry	/ System/Warhead Engineering.						

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Accomplishments/Planned Programs Subtotals

2.000

1.000

263.414

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Office of the Secretary Of Defense

R-1 Program Element (Number/Name)

Project (Number/Name)

Appropriation/Budget Activity 0400 / 5

PE 0604165D8Z I Prompt Global Strike
Capability Development

164 I Hypersonic Glide Experiment and Concepts Demonstration Support

Date: February 2018

Product Developmen	it (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba		FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Hypersonic Glide Experiment and Concept Development Support	Allot	Army Space and Missile Defense Center/Navy Strategic Systems Program : Huntsville AL/Washington DC	373.741	2.000		1.000		263.414		-		263.414	Continuing	Continuing	N/A
		Subtotal	373.741	2.000		1.000		263.414		-		263.414	Continuing	Continuing	N/A

Remarks

NA

		·	1		1							
												Target
	Prior				FY 2	2019	FY:	2019	FY 2019	Cost To	Total	Value of
	Years	FY 2017	FY 2	2018	Ва	ise	0	CO	Total	Complete	Cost	Contract
Project Cost Totals	373.741	2.000	1.000		263.414		-		263.414	Continuing	Continuing	N/A

Remarks

NA

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Office of the Secretary Of Defense								nse									Date: February 2018											
Appropriation/Budget Activity 0400 / 5								PE 0604165D8Z I Prompt Global Strike 164 I									4 <i>I H</i>	t (Number/Name) lypersonic Glide Experiment and ots Demonstration Support										
			201	7		FY		_			2019				202	-			202 ⁻	-			2022	2			202	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Hypersonic Glide Experiment and Concepts Demonstration Support																												
Trade Studies																												
Aerodynamic & Weapon Risk Reduction																												_
System Engineer Support																												

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Office of the Secretary Of I	Date: February 2018		
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604165D8Z I Prompt Global Strike Capability Development	164 I Hype	umber/Name) ersonic Glide Experiment and Demonstration Support

Schedule Details

	Sta	art	Eı	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Hypersonic Glide Experiment and Concepts Demonstration Support				
Trade Studies	1	2018	4	2018
Aerodynamic & Weapon Risk Reduction	1	2017	4	2018
System Engineer Support	1	2017	4	2018

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secretary Of Defense										Date: February 2018				
Appropriation/Budget Activity 0400 / 5														
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
166: Alternate Re-Entry System/ Warhead Engineering	562.701	153.810	197.440	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing		
Quantity of RDT&E Articles	s								-	-				

A. Mission Description and Budget Item Justification

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with participation from the Services, Agencies, national research laboratories, and further involvement of industry. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives highlighted by flight tests. The program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, thermal protection systems, guidance systems, test range modernization, and mission planning and enabling capabilities. To support these development activities, the program procures modeling and simulation capabilities, ground testing, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program timing will be driven by the outcome of flight and ground test events as well as DoD budgets. In FY 2018, as in previous years, funding for the individual Service initiatives will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Alternative Re-Entry System/Warhead Engineering and Delivery Vehicle Options/Development	153.810	197.440	0.000
Description: This sub-project will test and evaluate alternative booster and delivery vehicle options and will assess the feasibility of producing an affordable solution to fill the CPGS capability gap. It will mature technologies that could lead to advanced systems with the following characteristics: effects on targets in a very short-period of time from execution order; non-ballistic flight over the majority of the flight path; positive control from launch to impact; adequate cross-range/maneuverability to avoid over flight issues; and controlled stage drop over Broad Ocean Area. The technologies developed will have cross-Service and cross-concept applicability and will be developed through close coordination among DoD components. This activity will support both ground and flight tests, and provide all national data to inform a potential acquisition program.			
FY 2018 Plans: - Finalize testing of Hypersonic Glide Body and Booster to be used in FE-1, and begin manufacturing and testing of Hypersonic Glide Booster to be used in FE-2 - Continue intermediate range objective technology booster development for FE-3 with competitive industry; to include hardware procurement and fabrication - Support development of future flight test systems for CPGS concepts as required			

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secre	etary Of Defense		Date: Febru	ary 2018	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604165D8Z I Prompt Global Strike Capability Development	Project (Num 166 / Alterna Engineering	ate Re-Entr		Warhead
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2	2017 FY	2018	FY 2019
- Update the Technology Development Strategy and system engineering and test data, trade studies, and on-going risk reduction/technology deve		ng			
FY 2019 Plans: - Continue the manufacturing and testing of Hypersonic Glide Body and B - Begin manufacturing and testing of Hypersonic Glide Body to be used in - Continue intermediate range objective technology booster development procurement and fabrication - Support development of future flight test systems for CPGS concepts as - Continue studies for future system development to examine cost, lethalit and control, operational aspects, and technology integrated product team - Update the Technology Development Strategy and system engineering and test data, trade studies, and on-going risk reduction/technology development trade studies to evaluate system alternatives, affordability, endintegrated system complete with system architecture, and industrial manual Continue aerodynamic and weapon risk reduction and technology maturimprove modeling and simulation capabilities and technology readiness, a component technology tests - Continue Systems Engineering support to CPGS program and acquisitif facilitate judgments of feasibility and risks of all CPGS concepts. Continue CPGS community and COCOMs - Continue to support test range infrastructure for long term use - Continue studies for future system development to examine cost, lethalit and control, operational aspects, and technology integrated product team	FE-3 for FE-3 with competitive industry; to include hardware required ty, aerodynamic and thermal characteristics, commendate competitions are documentation based on updated CPGS engineering lopment efforts atto-end system concepts that will study a weaponize facturing readiness ation efforts through ground and wind tunnel tests assessing readiness to conducted integrated penetron. Apply support to Integrated Product Teams to be to support outreach and strategic messaging to early, aerodynamic and thermal characteristics, commends.	and ng ed to rator ntire			
FY 2018 to FY 2019 Increase/Decrease Statement: All of FY2019 funding will be allotted to P166, Alternate Re-Entry System/	Warhead Engineering.				
	Accomplishments/Planned Programs Sub	totals 15	3.810	197.440	0.00

UNCLASSIFIED

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office	e of the Secretary Of Defense	Date: February 2018
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604165D8Z I Prompt Global Strike Capability Development	Project (Number/Name) 166 I Alternate Re-Entry System/Warhead Engineering
D. Acquisition Strategy		
N/A		
E. Performance Metrics		
N/A		

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Office of the Secretary Of Defense

R-1 Program Element (Number/Name)

PE 0604165D8Z I Prompt Global Strike Capability Development

Project (Number/Name)

166 I Alternate Re-Entry System/Warhead

Date: February 2018

Engineering

Test and Evaluation	(\$ in Milli	ons)		FY 2017		FY 2018		FY 2019 Base		FY 2		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Alternative Reentry System/Warhead Engineering and Delivery Vehicle Options/ Development	Allot	Army Space and Missile Defense Center/Navy Strategic Systems Program : Huntsville AL/Washington DC	562.701	153.810		197.440		0.000		0.000		0.000	Continuing	Continuing	-
		Subtotal	562.701	153.810		197.440		0.000		0.000		0.000	Continuing	Continuing	N/A

Remarks

0400 / 5

Appropriation/Budget Activity

NA

	Prior Years	FY 2017	FY 2	2018	FY 2 Ba		2019 CO	FY 2019 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	562.701	153.810	197.440		0.000	0.000		0.000	Continuing	Continuing	N/A

Remarks

NA

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Office of the Secretary Of De	fense		Date: February 2018
Appropriation/Budget Activity	, ,	- , (umber/Name)
0400 / 5	PE 0604165D8Z I Prompt Global Strike	166 I Alteri	nate Re-Entry System/Warhead
	Capability Development	Engineerin	g

P166 CPGS Flight Experiment 1 (order 10)

		FY 2016			FY 2017				FY 2018				FY 2019				FY 2020					FY 2	021	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Planning/Design	Γ			1									Г		_			-	•					
Fabrication/Integration																								
Test Execution	Г																							
Post Test Analysis & Reporting	Γ											ā.												

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Office of the Secretary Of De	fense		Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400 / 5	PE 0604165D8Z I Prompt Global Strike	166 I Alteri	nate Re-Entry System/Warhead
	Capability Development	Engineerin	g

P166 CPGS Flight Experiment 2 (order 20)

		FY 2016			FY 2017			FY 2018				FY 2019				FY 2020					FY 2	2021		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Planning/Design	T																				Г			
Fabrication/Integr.	T																							
Test Execution																								
Post Test Analysis & Reporting																								

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Office of the Secretary Of DefenseDate: February 2018Appropriation/Budget ActivityR-1 Program Element (Number/Name)
PE 0604165D8Z / Prompt Global Strike
Capability DevelopmentProject (Number/Name)
166 / Alternate Re-Entry System/Warhead
Engineering

P166 Alternate Re-Entry System/Warhead Engineering

Trade Studies,		FY 2	2016		FY 2017				FY 2018				FY 2019				F	Y 2	020		F	Y 2	2021	
Ground Testing and	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Systems Engineering																								

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Office of the Secretary Of D	Defense		Date: February 2018
11	PE 0604165D8Z I Prompt Global Strike	, ,	umber/Name) nate Re-Entry System/Warhead

Schedule Details

	Sta	art	Ei	nd
Events	Quarter	Year	Quarter	Year
Navy Flight Experiment 1	1	2017	4	2017
Navy Flight Experiment 2	4	2017	4	2020

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 C	Office of the	Secretary (Of Defense					Date: February 2018				
Appropriation/Budget Activity 0400 / 5					PE 060416		t (Number/ mpt Global nt		Number/Name) t Range Development					
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
167: Test Range Development	62.446	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

A. Mission Description and Budget Item Justification

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with participation from the Services, Agencies, national research laboratories, and further involvement of industry. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives highlighted by flight tests. The program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, thermal protection systems, guidance systems, test range modernization, and mission planning and enabling capabilities. To support these development activities, the program procures modeling and simulation capabilities, ground testing, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program timing will be driven by the outcome of flight and ground test events as well as DoD budgets. In FY 2018, as in previous years, funding for the individual Service initiatives will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Test Range Development	2.000	-	-
Description: This sub-project will complete design, assembly and delivery of power/telemetry subsystems; assemble and integrate components to check command/control and verify range safety functions.			
Accomplishments/Planned Programs Subtotals	2.000	-	-

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Office of the Secretary Of Defense

Appropriation/Budget Activity

0400 / 5

R-1 Program Element (Number/Name)
PE 0604165D8Z I Prompt Global Strike

Capability Development

Project (Number/Name)

167 I Test Range Development

Date: February 2018

Product Developmen	t (\$ in Mi	illions)		FY 2	2017	FY 2	2018	FY 2 Ba	2019 se	FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Test Range Development	Allot	Army Space and Missile Defense Center/Navy Strategic Systems Program : Huntsville AL/Washington DC	62.446	2.000		-		-		-		-	Continuing	Continuing	N/A
		Subtotal	62.446	2.000		-		-		-		-	Continuing	Continuing	N/A

									Target
	Prior			FY 2019	FY 2019	FY 2019	Cost To	Total	Value of
	Years	FY 2017	FY 2018	Base	oco	Total	Complete	Cost	Contract
Project Cost Totals	62.446	2.000	0.000	-	-	-	Continuing	Continuing	N/A

Remarks

NA

Appropriation/Budget Activity 1400 / 5							PE	060	4165	5D8Z	I Pr	nt (Nu ompt			•			•	•	mber ange		•	ment	
		FY 20	117		F	Y 20		рарі		evelo 2019	opm		′ 2020	<u> </u>		FY '	2021		F	Y 20	22		FY 20	123
	1		3	4	<u>-</u> -		3 4	1	2		4	1 2		4	1	2	3	4	1		3 4	1		3 .
	•																							
Power/Telemetry Subsystem											·		·											

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Office of the Secretary Of D)efense		Date: February 2018
1	R-1 Program Element (Number/Name) PE 0604165D8Z I Prompt Global Strike Capability Development	,	umber/Name) Range Development

Schedule Details

	St	art	Eı	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Power/Telemetry Subsystem				
Power/Telemetry Subsystem	1	2017	4	2017

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 C	Office of the	Secretary (Of Defense					Date: Febr	ruary 2018	
Appropriation/Budget Activity 0400 / 5					PE 060416		t (Number/ mpt Global nt	•	Project (N 168 / OSD		,	
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
168: OSD CPGS Studies	74.388	3.290	3.309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

B. Accomplishments/Planned Programs (\$ in Millions)

This Program Element (PE) was established to develop and demonstrate technologies and applications that advance conventional prompt global strike (CPGS) warfighting capabilities. The program uses a national team with participation from the Services, Agencies, national research laboratories, and further involvement of industry. Program emphasis is on demonstrating component and subsystem technology maturity with risk reduction initiatives highlighted by flight tests. The program funds the design, development, and experimentation of boosters, payload delivery vehicles (PDVs), non-nuclear warheads, thermal protection systems, guidance systems, test range modernization, and mission planning and enabling capabilities. To support these development activities, the program procures modeling and simulation capabilities, ground testing, command and control interfaces, test range support, and launch system infrastructure. Additionally, expert resources address strategic policy and treaty issues. Program timing will be driven by the outcome of flight and ground test events as well as DoD budgets. In FY 2018, as in previous years, funding for the individual Service initiatives will be contingent upon their abilities to execute and achieve satisfactory progress towards project goals as determined by the CPGS portfolio manager.

= 17 to complication to a transfer to gramme (4 m minimum)	1 1 2017	1 1 2010	1 1 2013
Title: OSD CPGS Studies	3.290	3.309	-
Description: This sub-project supports emergent CPGS study efforts. In addition, it supports the application of the Prompt Global Strike Analysis of Alternatives (AoA) results and any AoA updates; requirements development; CPGS basing alternatives; analysis and defining of mission enabling technologies; and measures to avoid conventional missile launch ambiguity with nuclear weapon systems. Finally, it supports administrative activities associated with the management and execution of this Program Element.			
FY 2018 Plans: - Continue cost assessment studies for future system development - Continue lethality and warhead fuzing studies - Continue thermal and aerodynamic modeling and simulation - Continue senior steering group panel review and strategic messaging activities - Conduct command, control, and operational overlay exercises in parallel with CPGS flight tests - Continue program management reviews, ground test status and planning summits, and administrative support of ground test integrated product teams			
FY 2018 to FY 2019 Increase/Decrease Statement: All of FY2019 funding will be allotted to P166, Alternate Re-Entry System/Warhead Engineering.			
Accomplishments/Planned Programs Subtotals	3.290	3.309	-

FY 2017 FY 2018

FY 2019

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secretary	Of Defense	Date: February 2018
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604165D8Z I Prompt Global Strike Capability Development	Project (Number/Name) 168 / OSD CPGS Studies
C. Other Program Funding Summary (\$ in Millions) N/A Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics N/A		

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Office of the Secretary Of Defense

R-1 Program Element (Number/Name)

Date: February 2018

Appropriation/Budget Activity 0400 / 5

PE 0604165D8Z I Prompt Global Strike
Capability Development

Project (Number/Name) 168 / OSD CPGS Studies

Product Developme	nt (\$ in Mi	illions)		FY 2	2017	FY 2	018		2019 ise		2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
OSD CPGS Studies	Allot	Army Space and Missile Defense Center/Navy Strategic Systems Program : Huntsville AL/Washington DC	74.388	3.290		3.309		-		-		-	Continuing	Continuing	-
		Subtotal	74 388	3 290		3 309		_		_		_	Continuing	Continuing	N/A

Remarks

NA

												Target
	Prior				FY 2	2019	FY 2	2019	FY 2019	Cost To	Total	Value of
	Years	FY 2017	FY 2	2018	Ва	se	00	co	Total	Complete	Cost	Contract
Project Cost Totals	74.388	3.290	3.309		-		-		-	Continuing	Continuing	N/A

Remarks

NA

Exhibit R-4, RDT&E Schedule Profile:	PB 2019 Office	ce o	f the	e Se	ecre	etar	y O	f De	fens	е														Dat	e: F	ebru	iary	/ 20	18	
Appropriation/Budget Activity 0400 / 5									PE	060)416	65D8	Elem BZ / / elop	Pror	'npt				•		Pro 168	-	•		er/N GS S		•			
		F	Y 20	17			FY	201	8		F١	Y 20	19		F`	Y 20	020			FY	2021			FY	202	2		F١	Y 20:	23
	1	÷			4	1	FY 2		-	1			19 3 4	, 1				4	1		2021		1	FY 2		2 4	1			23 3 4
Emergent CPS Studies	1	÷			4	1			-	1				. 1				4	1				1			_	1			

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Office of the Secretary Of Defense		Date: February 2018
, · · · · · · · · · · · · · · · · · · ·	R-1 Program Element (Number/Name) PE 0604165D8Z I Prompt Global Strike Capability Development	Project (Number/Name) 168 / OSD CPGS Studies

Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Emergent CPS Studies				
Emergent CPS Studies	1	2017	4	2018